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Amendments to the Specification

Please replace the paragraph beginning at page 4, line 14 with the following amended paragraph:

Recombinant forms of PEDF and fragments thereof have been made and expressed in E. coli as well as mammalian cells. The amino acid sequence of human PEDF is as follows provided as SEQ ID NO:1 below:

mqalvlllci gallghsscq npasppeegs pdpdstgalv eeedpffkvp vnklaaavsn fgydlyrvrs smspttnvll splsvatals alslgadert esiihralyy dlisspdihg tykelldtvt apqknlksas rivfekklri kssfvaplek sygtrprvlt gnprldlqei nnwvqaqmkg klarstkeip deisilllgv ahfkggwvtk fdsrktsled fyldeertvr vpmmsdpkav lrygldsdls ckiaqlpltg smsiifflpl kvtqnltlie esltsefihd idrelktvqa vltvpklkls yegevtkslq emklqslfds pdfskitgkp ikltqvehra gfewnedgag ttpspglqpa hltfpldyhl nqpfifvlrd tdtgallfig kildprgp

Please replace the paragraph beginning at page 6, line 1 with the following amended paragraph:

Human NGF has an amino acid sequence, from amino to carboxyl terminus, as follows provided in SEQ ID NO:2 below:

mqaqqyqqqr rkfaaaflaf ifilaavdta eagkkekpek kvkksdcgew qwsvcvptsg dcglgtregt rtgaeckqtm ktqrckipcn wkkqfgaeck yqfqawgecd lntalktrtg slkralhnae cqktvtiskp cgkltkpkpq aeskkkkkeg kkqekmld Appl. No. 10/020,541
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Please replace the paragraph beginning at page 6, line 9 with the following amended paragraph:

NGF sequences are available via the National Center for Biotechnological Information website (http://www.ncbi.nlm-nih.gov/). This human NGF amino acid sequence is present in the NCBI database under Genbank Accession No. AAA35961.

Please replace the paragraph beginning at page 6, line 23 with the following amended paragraph:

The growth factor ciliary neurotrophic factor (CNTF) has been shown to be effective in the protection of photoreceptors in rds/rds mutant mice, another model of retinitis pigmentosa. In one such study, the CNTF was administered via an adenovirus transfrer vector containing a nucleic acid comprising an expressible open reading frame encoding the CNTF Cayouette et al., J. Neurosci. 18:9282 incorporated by reference herein. The adenovirus vector used for these studies was a replication-defective construct lacking the E1 region of the viral genome, and the CFTF gene was fused to the leader sequence of nerve growth factor which directed the protein's secretion from the vector-transduced cells. The vector was administered by intravitreal injection; the amount injected was 2.9×10^7 plaque forming units (pfu) in 1 ul. rds/rds mice given this vector displayed greater photoreceptor survival than in animals given а negative Additionally, the CNTF expression vector showed neuroprotection than in similar animals given an intravitreal injection of recombinant CNTF protein. Thus, the ability of the

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CNTF expression vector to provide a sustained dosage of CNTF to retinal cells appears to counteract the turnover of the CNTF protein in oculo. The amino acid sequence of human CNTF is as follows provided below as SEQ ID NO:3:

Please replace the paragraph beginning at page 7, line 25 with the following amended paragraph:

CNTF sequences are available via the National Center for Biotechnological Information website (http://www.ncbi.nlm.nih.gov/). This human CNTF amino acid sequence is present in the NCBI database under Genbank Accession No. UNHUCF.

Please replace the paragraph beginning at page 8, line 15 with the following amended paragraph:

The amino acid sequence of BDNF is given below as SEQ ID $\underline{\text{NO}:4}:$

Please replace the paragraph beginning at page 8, line 23 with the following amended paragraph:

BDNF sequences are available via the National Center for Biotechnological Information Website (http://www.ncbi.nlm.nih.gov/). This human BDNF amino acid sequence is present in the NCBI database under Genbank Accession No. AAA96140.